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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE  
INFORMATION DISCLOSURE STATEMENT

In re Application of:  
R. KENNETH MARCUS  
W. CLAY DAVIS

Attorney Docket No: CXU-342-US

Art Unit: 2821

Serial No: 10/622,187

Our Customer ID: 22827

Filing Date: July 17, 2003

Our Account No: 04-1403

Confirmation No: 2240

Title: ATMOSPHERIC PRESSURE GLOW DISCHARGE OPTICAL EMISSION SOURCE FOR THE DIRECT SAMPLING OF LIQUID MEDIA

Commissioner for Patents  
U.S. Patent and Trademark Office  
Post Office Box 1450  
Alexandria, VA 22313-1450

Sir:

The following is an Information Disclosure Statement for the captioned patent application, pursuant to 37 CFR Sections 1.56, 1.97, and 1.98.

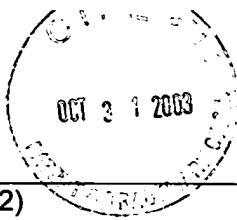
1.[X] Attached hereto is:

- a.[ ] A list of materials for consideration per Rule 98(a)(1): 2 page(s)
- b.[ ] A legible copy of each patent, publication, or other item listed per Rule 98(1)(2), unless not required per Rule 98(c) and/or (d) and as indicated on the attached list(s): 9 item(s)
- c.[ ] For each non-English language item listed, pursuant to Rule 98(a)(3), a concise explanation of the relevance thereof as it is presently understood by the individual designated in Rule 56(c) most knowledgeable about the content of such items: \_\_\_\_\_  
[ ] Such explanation is provided in the Search Report from a corresponding application enclosed herewith along with any enclosed translation into English.

2.[X] This Information Disclosure Statement is being filed [CHECK ONE]:

- a.[X] WITHIN THREE MONTHS of the application filing date, national stage date of entry, or along with or after a request for continued examination, OR BEFORE the mailing date of a first Office Action on the merits, which ever event occurs last, WHEREFORE per Rule 97(b) NO filing fee or Rule 97(e) certificate is required.
- b.[ ] AFTER the time periods of section 2.a above, but BEFORE a Final Action, Notice of Allowance OR an action that otherwise closes prosecution, WHEREFORE PER Rule 97(c) submitted herewith is [CHECK ONE]:
  - i.[ ] Certification per Rule 97(e); OR
  - ii[ ] Filing Fee per Rule 17(p) \$180.00

EXAMINER INITIALS		OTHER DOCUMENTS Specify author (if any), Title, Pertinent Pages, Date & Place of Publication	COPY NOTE
		GLOW DISCHARGE SPECTRA OF COPPER AND INDIUM ABOVE AQUEOUS SOLUTIONS, Dwight E. Couch and Abner Brenner, Chemistry Division, National Bureau of Standards, Washington, D.C., pages 628 and 629	
		EMISSION STUDIES ON A GLOW DISCHARGE IN ATMOSPHERIC PRESSURE AIR USING WATER AS A CATHODE, T. Cserfalvi, P. Mezei and P. Apai, J. Phys. D: Appl. Phys. 26 (1993) pages 2184-2188	
		DIRECT SOLUTION ANALYSIS BY GLOW DISCHARGE: ELECTROLYTE-CATHODE DISCHARGE SPECTROMETRY, Tamas Cserfalvi, Pal Mezei, Journal of Analytical Atomic Spectrometry, March 1994, Volume 9, pages 346-349	
		PRESSURE DEPENDENCE OF THE ATMOSPHERIC ELECTROLYTE CATHODE GLOW DISCHARGE SPECTRUM, Pal Mezei, Tamas Cserfalvi and Mihaly Janossy; Journal of Analytical Atomic Spectrometry (1997), pages 1203-1208	
		RAPID COMMUNICATION THE GAS TEMPERATURE IN THE CATHODE SURFACE – DARK SPACE BOUNDARY LAYER OF AN ELECTROLYTE CATHODE ATMOSPHERIC GLOW DISCHARGE (ELCAD), P. Mezei, T. Cserfalvi, and M. Janossy; J. Phys. D: Appl. Phys. 31 (1998) pages L41-L42.	
		FUNDAMENTAL STUDIES OF ELECTROLYTE-AS-CATHODE GLOW DISCHARGE-ATOMIC EMISSION SPECTROMETRY FOR THE DETERMINATION OF TRACE METALS IN FLOWING WATER, Yang S. Park, Soo H. Ku, Sung H. Hong, Hyo J. Kim and Edward J. Piepmeier; Spectrochimica Acta Part B 53 (1998), pages 1167-1179.	
		DEVELOPMENT OF OPEN-AIR TYPE ELECTROLYTE-AS-CATHODE GLOW DISCHARGE-ATOMIC EMISSION SPECTROMETRY FOR DETERMINATION OF TRACE METALS IN WATER, Hyo J. Kim, Jeong H. Lee, Myung Y. Kim, T. Cserfalvi and P. Mezei; Spectrochimica Acta Part B 55 (2000) pages 823-831	
		A BRIEF OVERVIEW OF THE PRESENT STATUS OF THE MECHANISMS INVOLVED IN ELECTROSPRAY MASS SPECTROMETRY, P. Kebarle, J. Mass Spectrom. 35, pages 804-817 (2000)	
		DOWNSIZING CHEMISTRY Chemical analysis and synthesis on microchips promise a variety of potential benefits, Michael Freemantle, C&EN London, February 22, 1999, pages 27-36	
EXAMINER		DATE CONSIDERED	
<p>Examiner:     initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.</p>			



(Rev. 5/92) Information Disclosure Statement List By Applicant Under 37 CFR Section 1.98(a) (1) (Use several sheets if necessary)	Attorney Docket Number CXU-342-US	Serial Number 10/622,187
	Applicant R. KENNETH MARCUS W. CLAY DAVIS	
	Filing Date: July 17, 2003 Confirmation No.:	Group

NOTE: If no indication is made in the column marked "COPY NOTE," the required legible copy of the corresponding item is submitted herewith; otherwise, a copy is not required and/or not submitted, for the following reason(s) [corresponding reason number is listed in "COPY NOTE" column]

- (1) This item is cumulative, per Rule 98(c)
- (2) A copy of this item was previously cited by or submitted to the U.S. Patent and Trademark Office in: USSN \_\_\_\_\_, filed \_\_\_\_\_, or USSN \_\_\_\_\_, filed \_\_\_\_\_; Relied on under 35 U.S.C. Section 120, per Rule 98(d)
- (3) Both reasons (1) and (2) apply
- (4) No legible complete copy is possessed, in custody of controlled, or readily available

U.S. PATENT DOCUMENTS				
EXAMINER INITIALS	PATENTEE NAME	PATENT NUMBER	ISSUE DATE	COPY NOTE

FOREIGN PATENT DOCUMENTS								
EXAMINER INITIALS		COUNTRY	DOCUMENT NUMBER	PUBLICATION DATE	TRANSLATION			COPY NOTE
					YES	NO	N/A	

\*"NO" means that no copy of an English language translation is within the possession, custody, or control of, or is readily available to any individual designated in Rule 56(c).

c.[ ] AFTER a Final Action OR Notice of Allowance, but BEFORE payment of the issue fee, WHEREFORE per Rule 97(d) submitted herewith is:

- i. Certification per Rule 97(e); AND
- ii. Filing fee per Rule 17(p)..... \$180.00

3.[ ] Rule 97(e) Certification; per Rule 97(e), the undersigned certifying party make the following certification statement [CHECK ONE]:

- a.[ ] That each item of information contained in this Information Disclosure Statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement; OR
- b.[ ] That no item of information contained in this Information Disclosure Statement was cited in a foreign patent office in a counterpart foreign application and to the knowledge of the undersigned after making a reasonable inquiry, was known to any individual designated in Rule 56(c) more than three months prior to the filing of this statement.

CERTIFYING PARTY (if different from bottom signature; omission here indicates that certification is being made by signer per signature below).

Name: \_\_\_\_\_ Signature: \_\_\_\_\_  
Address: \_\_\_\_\_ Date: \_\_\_\_\_

4.[x] DEPOSIT ACCOUNT AUTHORIZATION: The Commissioner is hereby authorized to charge any fee specifically authorized hereafter, or any fees in addition to the fee(s) filed, or asserted to be filed, or which should have been filed herewith or concerning any paper filed hereafter, and which may be required under Rules 16-18 (deficiency only) now or hereafter relative to this application and the resulting official document under Rule 20, or credit any overpayment, to our Account No. shown in the heading hereof for which purpose a duplicate copy of this sheet is attached. This statement does not authorize charge of the issue fee in this case.

5.[x] "Express Mail" Certificate under Rule 10:

"Express Mail" – Label No. EV342690154 US  
Date of Deposit October 31, 2003

I hereby certify that this paper and all attachments and any fee are being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to the Commissioner for Patent, U.S. Patent and Trademark Office, Post Office Box 1450, Alexandria, VA 22313-1450.

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Reg. No: 29,609

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Date: 10-30-03